STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1,2, 3, and 8. In block 1, both the document number and revision letter should be given.
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I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER MIL-STD-2500	2. DOCUMENT DATE *(YYMMDD)* 930618

3. DOCUMENT TITLE   NATIONAL IMAGERY TRANSMISSION FORMAT

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

This RFC supercedes RFC 95-014.

This change provides a mechanism to provide the offsets for each image frame with an NITF image. Such information allows readers of NITF files to process the individual image frames in either a random access fashion or in parallel.

Recommended Wording
See attached

5. REASON FOR RECOMMENDATION

The rational for this change is a heavy desire for the readers of large NITF files to be able to process the NITF file in a parallel fashion so as to meet performance requirements. As this is a problem which will potentially effect allusers of large NITF files, a controlled tag extension for this purpose is proposed.

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30.2.6 NBLOCA Tagged Record Extension

This tagged record extension stores the offset of each image frame relative to each other within a NITF image. This extension allows the NITF file to be read in a random access or parallel fashion.

Table B-11 defines the format for the controlled tagged record extension to the NITF 2.0 bearing tag NBLOCA. This extension contains the offsets of each image frame with an image in the NITF file relative to one another. This extension is meant to be stored in the NITF image subheader.

FIELD NAME	BYTES	DESCRIPTION	FORMAT ASCII	UNITS	RANGE
CETAG	6	UNIQUE EXTENSION IDENTIFIER	NBLOCA	N/A	N/A
CEL	5	LENGTH OF ENTIRE RECORD	(See note1)	BYTES	28-99988
FRAME 1 OFFSET FROM NITF SUBHEADER	4	FIRST IMAGE FRAME OFFSET IN BYTES FROM THE BEGINNING OF NITF IMAGE SUBHEADER	(See note2)	BYTES	0-99999
NUMBER OF FRAMES	4	NUMBER OF BLOCKS FOR WHICH OFFSETS ARE LISTED	(See note2)	NUMBER OF OFFSETS	1-32400
FRAME 2 OFFSET	4	OFFSET IN BYTES OF SECOND IMAGE FRAME FROM START OF FIRST IMAGE FRAME (SOI)	(See note2)	BYTES	$1-2^{32}-1$
...	...	...	...	...	...
FRAME N OFFSET	4	OFFSET IN BYTES OF Nth IMAGE FRAME FROM START OF N-1 IMAGE FRAME (SOI)	(See note 2)	BYTES	$1-2^{32}-1$

Notes:

1) This value is dependent upon the number of image frame offsets which are stored in this controlled data extension.

2) This value is stored in 4 byte binary integer representation.